

Regional Director, Portland, Oregon

January 15, 1970

Refuge Biologist, Stillwater Refuge,
Fallon, Nevada

Special Canvasback Study

Attached are the completed forms covering arrival and departure dates and peak populations of canvasbacks using Stillwater Wildlife Management Area during 1969.

Larry D. Napier

CANVASBACK SURVEY

Prepared by Larry D. NAPIER

Date 1-6-70

Coded by Larry D. NAPIER

Date 1-6-70

Project No. A 1 0
Work Unit 0 2
State Nevada
Area Stillwater WMA
Water Type Lake
Size Class 1,001-2,000
Reason for Use Food
Hunting Pres. Low
Type Hunting Pass
Dist. to Pass
A Division Road - 0-50 yd
B
C
Ownership %
Private 24%
State 3%
Federal 73%
Pub. Shooting 89%
Refuge 11%
Other

Year
Arrival: Month September
Day 12
No. Canvasback 275
No. Redhead 10,050
No. Scaup
No. Other Ducks 73,325
Peak Numbers: Month November
Day 3rd
No. Canvasback 17,315
No. Redhead 4,080
No. Scaup 45
No. Other Ducks 73,130
Departure: Month November
Day 26
Remaining Cans. 1,085
Remaining Redhead 970
Remaining Scaup 10
Remaining Other Ducks 44,780

REMARKS-(continue on back of form, if necessary)

No Canvasback sex ratio counts were made, and any estimates would be unreliable. General impressions are a high proportion of males - probably close to 2:1

UNITED STATES GOVERNMENT

Memorandum

[Handwritten signature]
MANAGER
ASSISTANT
BIOLOGIST

TO : Project Leaders listed below

DATE: September 26, 1969

FROM: ~~the~~ Regional Director, BSF&W, Portland, Oregon

1013 DISTRICT

SUBJECT: Special Canvasback Study

This is to alert you to the continuation of the Special Canvasback Study in which you participated last year.

Depending upon results obtained and the future status of canvasbacks, it may be desirable to continue this study once every five years.

For this year, however, the survey will include the months of October thru January. Areas of responsibility and survey methods will remain the same. Instructions and forms will follow in a few days. Meanwhile, you should record canvasback movements for your assigned study areas which come to your attention as of October 1.

Project Leaders:

Refuge Managers, Minidoka, Malheur, Medicine Lake, Bowdoin,
Red Rock Lakes, Salton Sea, Tule Lake, Stillwater,
and Ruby Lake;
Game Management Agents Wills, Tumwater; Wendler, Reno; and
Agent-Pilot Weinrich, Sacramento;
Flyway Biologist Norman, Portland
Refuges, Regional Office

James S. Roberts

OCT 1 1969



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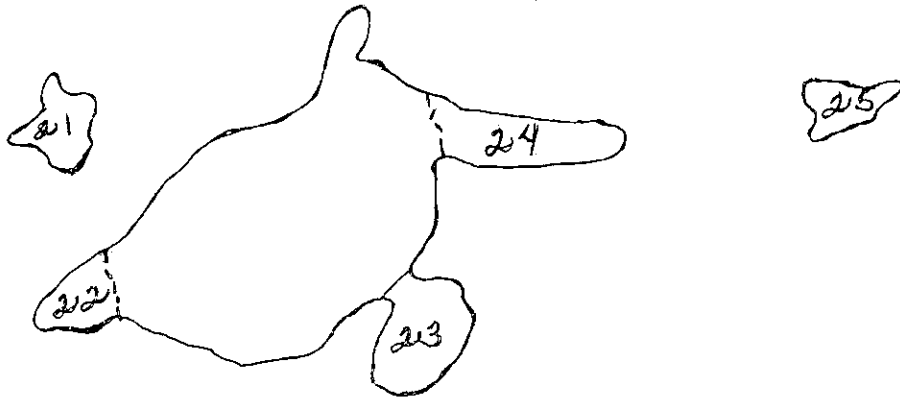
CODING INSTRUCTIONS FOR PROJECT LEADERS AND COOPERATORS FOR COMPLETION OF CANVASBACK SURVEY FORMS.

General: All information will be written on the form in appropriate place. In addition, in order to speed the analysis of data gathered during these surveys, the information will be coded and punched on IBM cards which will make possible machine sorting and tabulating as well as computer analysis of certain problems. You will be supplied with data forms which can be read directly by a keypunch operator. There are two types of data recorded on the form: (1) coded data where a code number represents a class or area, i.e. the state of Minnesota = code 50, and (2) measurement data where the measurement itself is written directly on the form, i.e. number of canvasbacks. Remember, however, in addition to coding, the information should also be written directly on the form.

The Project Leader has the responsibility to make sure that only one form is completed for each area, even though information may be included from more than one survey. Measurement data may be filled in directly by cooperators. The list of codes provided to each Project Leader is complete except for the codes for individual areas. These codes must be prepared by the Project Leader as follows:

All areas should be clearly shown on the appropriate maps. Individual areas are then numbered consecutively 01.02, ---- to identify all areas surveyed in each state. Each state may thus have a similar series of numbers for individual areas, which can be sorted by state codes. After numbering the areas, the numbers should be written in boxes 6 and 7.

In the case of very large lakes and salt water areas a water body may be divided into more than one area, each with a different number as shown below:



The final form should be checked for coding and completeness by the Project Leader. Numbers must be written lightly in the appropriate boxes, and rounded to nearest 100. There should never be more than one digit per box. Fill in leading zeros on measurement data, i.e. 7,365 redheads would be written

0	7	4
---	---	---

, 730 canvasbacks will be

0	0	7
---	---	---

, 20,131 scaup would be

2	0	1
---	---	---

. A properly completed form will have all boxes filled except 16, 17 and 18 which may be left blank if no passes are present on an area.

For purposes of definition in column 15, consider a pass a strip of land between two water areas. Offshore floating blind may be any legal floating device from which hunting is done, including a boat anchored in rushes or used in open water.

The completed forms should be returned to the Project Leader who will edit them for accuracy and completeness and then forward to Project Coordinator, with a copy of the map showing the numbered location of all areas in each state.

CODING

Item -----	Column	Description	Code
Project	1-3	Identical all forms	
Work Unit	4-5	Identical all forms	
State	6-7	Use 2 digit codes as shown in Banding Manual	
Area	8-9	Use 2 digit code as described in general instructions	
Water type	10	River	1
		Lake	2
		Fresh water bay	3
		Tidal bay	4
		Open ocean	5
Size class (acres)	11-12	50-100	01
		101-200	02
		201-300	03
		301-400	04
		401-500	05
		501-600	06
		601-1,000	07
		1001-2,000	08
		2001-3,000	09
		3001-4,000	10
		4001-5,000	11
		5001-6,000	12
		6001-7,000	13
		7001-8,000	14
		8001-9,000	15
		9001-10,000	16
		10,001-20,000	17
		21,001-30,000	18
		31,001-40,000	19
		41,001-50,000	20
		51,001 or greater	21
Reason for use	13	Food	1
		Rest area	2
		Closed to hunting	3
		Protection from wind	4

(continued)

Item	Column	Description	Code
Hunting pressure	14	None	1
		Low	2
		Moderate	3
		High	4
Type hunting (dominant type)	15	Pass	1
		Offshore fixed blind	2
		Offshore floating blind	3
		Onshore blind	
Distance to pass	16-18	Distance in yards	0-50
A-Pass No. 1 (name)	(16)		51-100
			101-150
B-Pass No. 2	" (17)		151-200
			201-250
C-Pass No. 3	" (18)		251-300
			301-350
			351-400
			401-450
Ownership	19-24	Percentage of area	0-10
Private	(19)	Enter percentage of owner-	11-20
State	(20)	ship in 19, 20 and 21 only.	21-30
Federal	(21)	Place an "X" in blocks 22,	31-40
Public shooting	(22)	23 or 24 if applicable.	41-50
Refuge	(23)	Identify "other" situa-	51-60
Other	(24)	tions that exist.	61-70
			71-80
			81-90
			91-100
Year	25,26	Record year - i.e. 69	
Month	27,42,57		September
			October
			November
			December
			January
Day	28,29,43, 44,58,59	Record day - i.e. 01-31	
Duck counts	30-41 45-56 60-71	Record number seen in appropriate box with leading zeros i.e. (5000) = <u>0 5 0</u>	

The "Month and Day" designation for arrival, peak numbers and departure pertains to canvasbacks only, but also show the population data on numbers of redheads, scaups or other ducks present at that time. In the case of departure, we are primarily interested in learning when the majority of canvasbacks left and the number of other species remaining at that time.

Remarks - Whenever possible please try to obtain sex ratio counts on canvasbacks only. Sex ratio data can be entered in the blank space under Remarks Section.

STATE AND PROVINCIAL CODE NUMBERS

02 Alabama	45 Manitoba
03 Alaska	46 Maryland
04 Alberta	47 Massachusetts
06 Arizona	48 Mexico
07 Arkansas	49 Michigan
11 British Columbia	50 Minnesota
14 California	51 Mississippi
17 Colorado	52 Missouri
18 Connecticut	53 Montana
21 Delaware	54 Nebraska
22 District of Columbia	55 Nevada
25 Florida	56 New Brunswick
27 Georgia	57 Newfoundland
33 Idaho	58 New Hampshire
34 Illinois	59 New Jersey
35 Indiana	60 New Mexico
36 Iowa	61 New York
38 Kansas	63 North Carolina
39 Kentucky	64 North Dakota
42 Louisiana	65 Nova Scotia
43 McKensie	66 Ohio
44 Maine	67 Oklahoma

68 Ontario
69 Oregon
72 Pennsylvania
76 Quebec
77 Rhode Island
79 Saskatchewan
80 South Carolina
81 South Dakota
82 Tennessee
83 Texas
85 Utah
87 Vermont
88 Virginia
89 Washington
90 West Virginia
91 Wisconsin
92 Wyoming
93 Yukon
95 Kewatin

UNITED STATES GOVERNMENT

Memorandum

TO : Project Leaders listed below

FROM : Assistant Regional Director, BSP&W, Portland, Oregon

SUBJECT: Canvasback Survey - 1969

MANAGER

ASSISTANT

CLERK

PIOLOGIST

DATE: October 2, 1969

FILE DESTROY

(1-ME)

This is the followup correspondence referred to in our September 26, 1969 memorandum.

Forms and coding instructions for this year's survey are enclosed. The following information and the instructions apply:

1. Only those areas for which forms were supplied need to be covered this year. For your convenience, we have completed the left side of your forms. This data (the left side) probably will remain the same for 1969. If not, please make corrections as necessary.
2. Cooperators should cover their areas frequently enough to accomplish the following survey objectives: to determine arrival dates; peak populations; departure dates; and wintering populations for October, November, December, and January. Arrival and departure dates should deal with the main flight, rather than with the first few birds to arrive or the last small segment of departing birds.
3. Record only concentrations of 200 or more canvasbacks.
4. For some areas, it may be desirable to enlist the aid of dependable local observers to help determine arrival or departure dates more precisely. These dates assist in recording major use periods. If the arrival or departure date is "approximate" enter (approx.) on the "day" line.
5. Each cooperator is to do his own coding this year as outlined in the enclosed coding instructions.
6. Please note bottom of page 4 of the coding instructions concerning sex ratio data.
7. Your final report should reach this office on or before February 1, 1970.



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8. Your comments pertaining to operational difficulties, or other factors affecting your survey should be included under "Remarks".

9. All questions pertaining to this study should be directed to the Regional Canvasback Project Leader, Carl J. Gruener, Assistant Regional Supervisor of Management and Enforcement, BSF&W, P. O. Box 3737, Portland, Oregon 97208, Telephone: AC 503 234-3361, Ext. 4087.

After this fall and winter, a "checkup" survey once every 5 years should be adequate unless extremely low canvasback populations continue.

Carl J. Gruener

Enclosures

Project Leaders:

Refuge Managers - Minidoka, Malheur, Medicine Lake, Bowdoin,
Red Rock Lakes, Salton Sea, Tule Lake,
Stillwater, and Ruby Lake;

Game Management Agents - Tumwater, Washington and Reno, Nevada;
and Agent-Pilot, Sacramento, California;

Flyway Biologist Norman, Portland, Oregon.